

Datasheet No. A-061.013.071
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Bulbophyllumrefractum*(Zoll.) Rchb.f

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:*Cirrhopetalumrefractum*Zoll.,*Phyllorchisrefracta* (Zoll.) Kuntze, *Phyllorkisrefracta* (Zoll.) Kuntze, *Tripudianthesrefracta* (Zoll.) Szlach. &Kras

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobiinae
- Genus: *Bulbophyllum*Thouars
- Species:*Bulbophyllumrefractum* (Zoll.) Rchb.f.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Dendrobicae

Genus: *Bulbophyllum*Thouars

Species:*Bulbophyllumrefractum*(Zoll.) Rchb.f.

4.Distribution:

Global:India, Myanmar, Thailand, Vietnam, Java and Sumatra, from sea level to 1400m

India: Eastern Himalayas

5.Indigenous/Exotic/Endemic;Cultivated/Wild:Indigenous, wild

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows as epiphyte on the trunks of trees in Kumaon hills at 1400m

8.Life Form:Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{1,8, 12, 13,14}$

13. Zygotic chromosome number(s): $2n=38^1$

14. Gametic chromosome number(s): $n=19^{8, 12, 13,14}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel:Diploid^{1, 8, 12, 13,14}

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis [9][8, 12, 13, 14]

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):